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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/562,105 | 12/22/2005 | Helmut Jerg | 2003P00938WOUS | 8104 |

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| EXAMINER |
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GRAVINI, STEPHEN MICHAEL

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| ART UNIT | PAPER NUMBER |
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3749

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| MAIL DATE | DELIVERY MODE |
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03/17/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|--------------------------------------|------------------------------------|--|
| Office Action Summary | Application No. 10/562,105 | Applicant(s) JERG ET AL. | |
| | Examiner Stephen Gravini | Art Unit 3749 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 9-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 9-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>20051222</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:
It does not state that the person making the oath or declaration acknowledges the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 CFR 1.56. Specifically, the duty must acknowledge “material to patentability as defined in 37 CFR 1.56” instead of material to examination under 37 CFR 1.56(a) as currently stated. Correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 9-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Anderson et al. (US 6,434,857). The claims are reasonably and broadly construed, in light of the accompanying specification, to be disclosed by Anderson, as comprising:

subjecting items retained in the device to a drying step after the items have undergone a treatment step as a result of which moisture remains on the items, the step of drying including drawing at least one of air from a treatment chamber and ambient air through a sorption column and thereafter guiding the air that has passed through the sorption column into a treatment chamber, the sorption column

containing reversibly dehydratable material that operates to withdraw moisture from air during the passage of the air through the sorption column at column 3 line 64 through column 4 line 47; and

effecting desorption of the reversibly dehydratable material in the sorption column via drawing at least one of air from the treatment chamber and ambient air through a sorption column by means of an air accelerator means, subjecting air passing through the sorption column to heating, and guiding the air that has been heated as it passed through the sorption column into the treatment chamber, whereupon the air guided into the treatment chamber heats at least one of a treatment liquid to be applied to the items retained in the device and the items themselves column 4 lines 48-65. Anderson also discloses the claimed steps of effecting desorption of the reversibly dehydratable material includes heating air during its passage through the sorption column by heat of condensation and a selected one of additional heating via a heater and no additional heating via a heater at column 8 lines 14-37, wherein the passage of air is undertaken during a programme step using treatment liquid to be heated at column 7 lines 31-51, wherein effecting desorption of the reversibly dehydratable material includes heating air during its passage through the sorption column and thereafter passing the air through a heat storage device for cooling in order to intermediately store the heat used for desorption in the heat storage device, and further including thereafter passing air for heating purposes through the heat storage device and into the treatment chamber at column 9 lines 5-18.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson in view of Tuck et al. (US 3,034,221). Anderson discloses the claimed invention, as rejected above, except for the claimed features including effecting desorption of the reversibly dehydratable material includes heating the air via a heater in a pipe to the sorption column, wherein at least one of the treatment liquid and the items are heated by the heated air and effecting desorption of the reversibly dehydratable material includes at least partly delivering the desorbed moisture from the sorption column into at least one of the treatment chamber or the heat storage device, and wherein effecting desorption of the reversibly dehydratable material includes heating the air via the heat of condensation in the sorption column. Tuck, another method for operating a device, discloses effecting desorption of the reversibly

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dehydratable material includes heating the air via a heater in a pipe to the sorption column at column 2 lines 17-27, wherein at least one of the treatment liquid and the items are heated by the heated air and effecting desorption of the reversibly dehydratable material includes at least partly delivering the desorbed moisture from the sorption column into at least one of the treatment chamber or the heat storage device, and wherein effecting desorption of the reversibly dehydratable material includes heating the air via the heat of condensation in the sorption column at column 2 line 54 through column 3 line 59 respectively. It would have been obvious to one skilled in the art to combine the teachings of Anderson with the obviated features disclosed in Tuck for the purpose of efficiently using heated air to provide an effective use of energy in using waste heat to minimize the cost of reverse dehydration in sorption columns.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Gravini whose telephone number is 571 272 4875. The examiner can normally be reached on normal weekday business hours (east coast time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven B. McAllister can be reached on 571 272 6785. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen Gravini/
Primary Examiner, Art Unit 3749